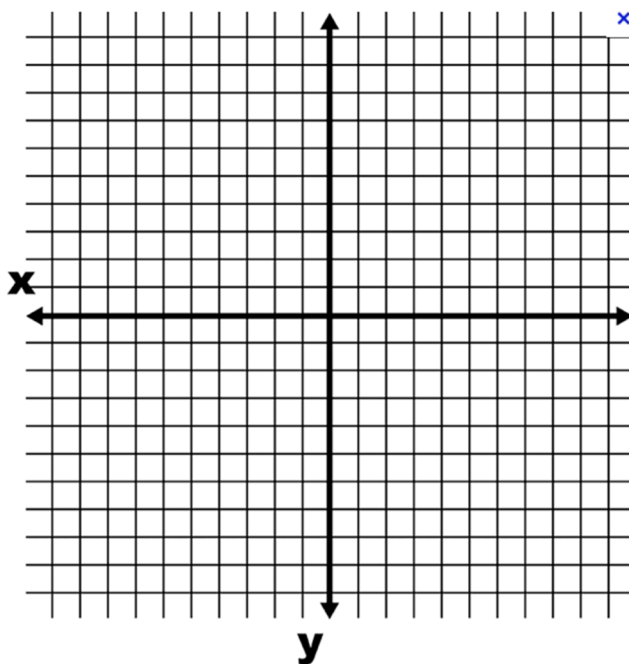
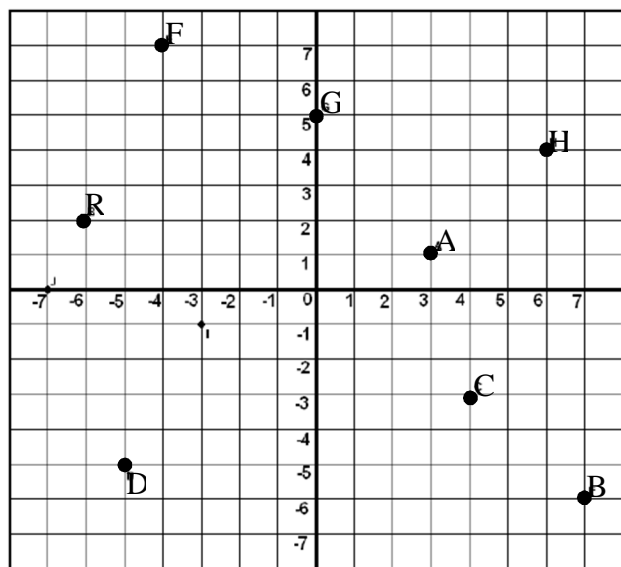


Plot the following points on the given graph below.

- 1) G (8, 9)
- 2) O (7, 9)
- 3) L (-7, 4)
- 4) H (-5, -8)
- 5) S (3, -2)



Write the coordinates of the following points.



- 6) F _____
- 7) G _____
- 8) H _____
- 9) D _____
- 10) C _____

What are some other words that we can use instead of “distance”?

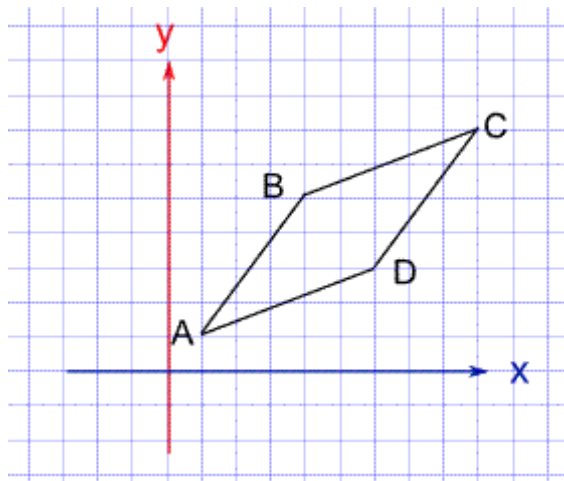
Think... distance formula!

$$d =$$

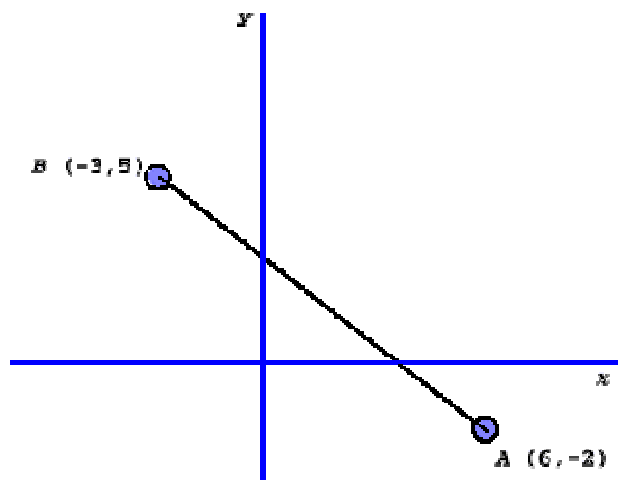
11) Find the distance between (1, 2) and (4, 6).

12) Find the distance between E and G. Point E is at (10, 15) point G is at (-4, -7).

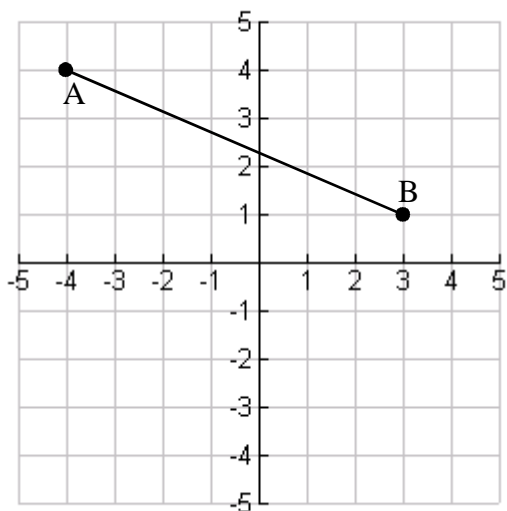
13) Find the distance between point A and point B.



14) Find the distance between points A and B.



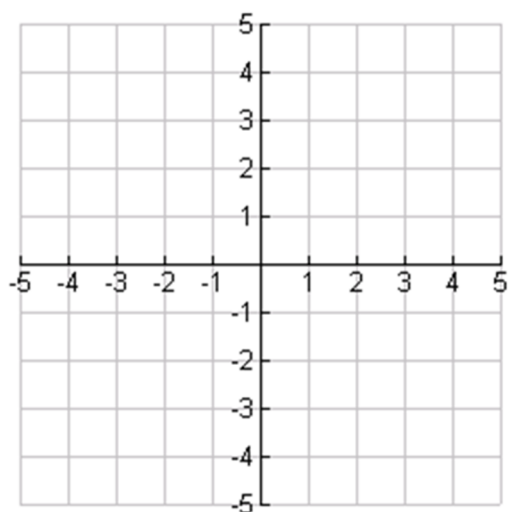
15) Find the midpoint of line \overline{AB} .



Think... Midpoint!

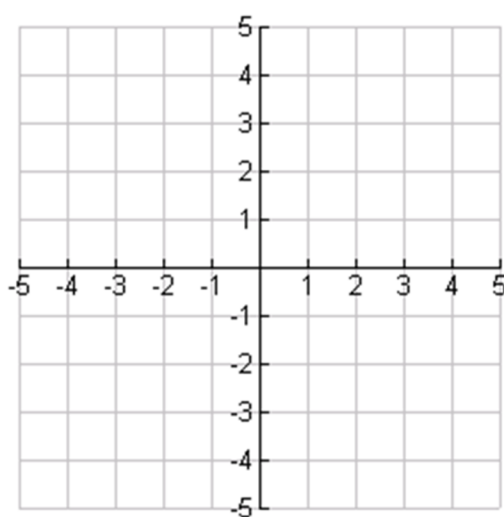
16) Find the midpoint of \overline{EF} .

E (-5, -2) F (0, 3)



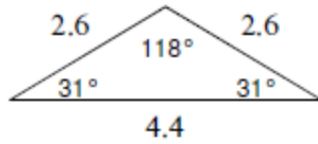
17) Find the midpoint of \overline{CD} .

C (1, -4) D (2, 4)

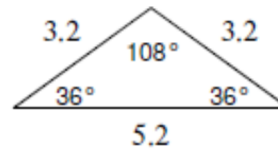


Classify by each triangle by angle and sides

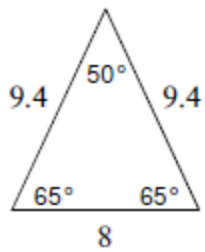
18)



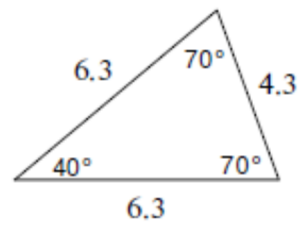
19)



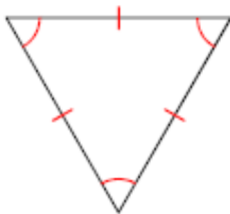
20)



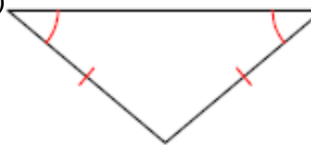
21)



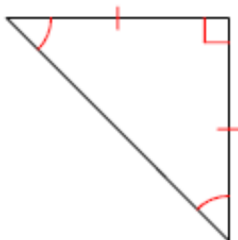
22)



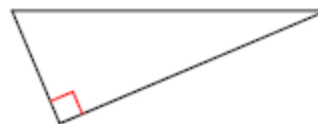
23)



24)



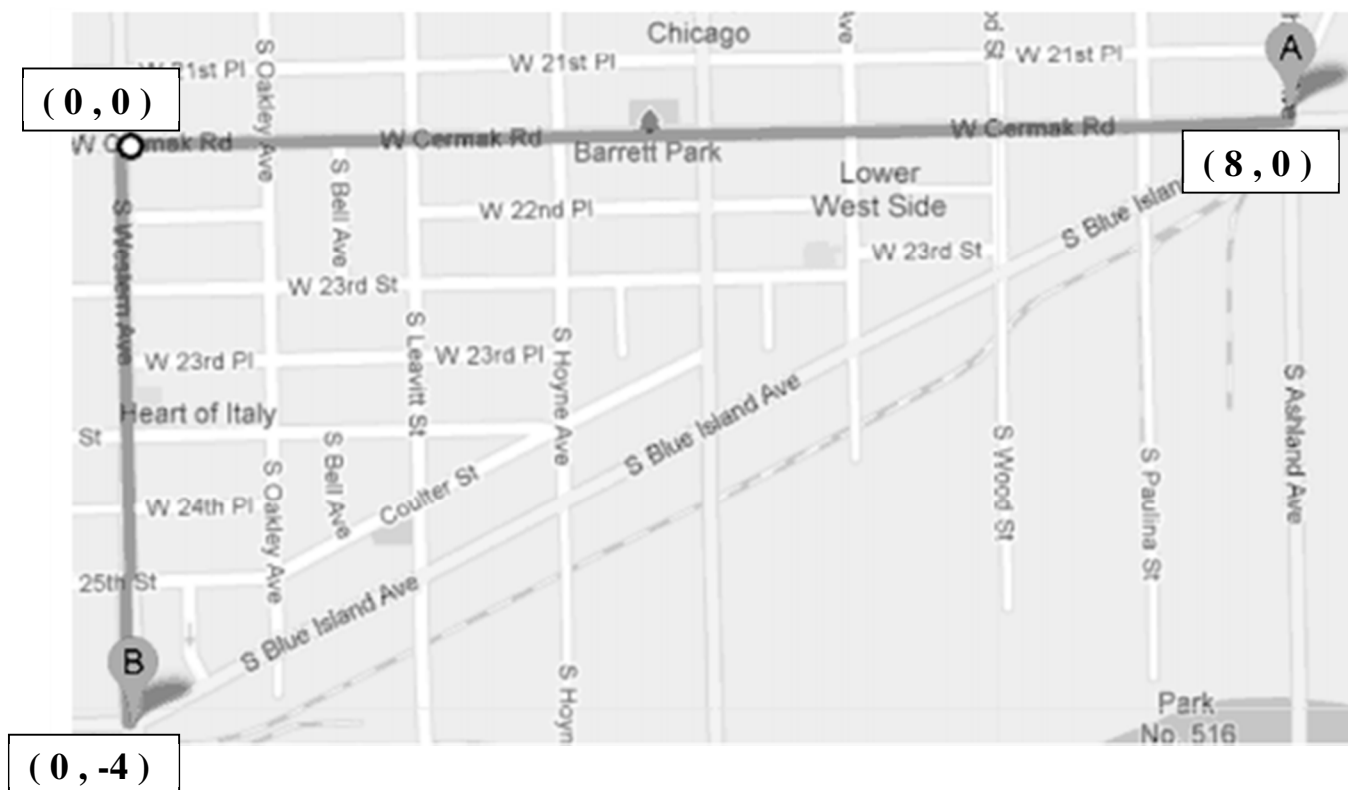
25)



Sketch an example of the type of triangle described. Mark the triangle to indicate what information is shown.

26) Equilateral

27) obtuse isosceles



Julio and Carlos have agreed to meet up after school at the YMCA (Point B on the map). They each leave school (Point A on the map) separately. Carlos walks 8 blocks along Cermak to Western, and then turns south and walks 4 more blocks (following the route marked on the map). Julio walks directly along Blue Island (the straight diagonal on the map). How much farther does Carlos walk than Julio? You must justify your answer with calculations.

Barrett Park is half-way along Carlos's walk down Cermak. What is the distance between Barrett Park and the YMCA (Point B)?